



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,152	07/24/2003	Michael Len Bossio	SJO920030024US1	2526
29683	7590	03/03/2005	EXAMINER	
HARRINGTON & SMITH, LLP 4 RESEARCH DRIVE SHELTON, CT 06484-6212			CHANG, YEAN HSI	
			ART UNIT	PAPER NUMBER
			2835	

DATE MAILED: 03/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/627,152

Applicant(s)

BOSSIO, MICHAEL LEN

Examiner

Yean-Hsi Chang

Art Unit

2835

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 5-20 is/are rejected.
- 7) ☒ Claim(s) 4 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>7/24/03</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claims 5, 7 and 13 are objected to because of the following informalities: The "the at least one slide" in claim 5, "the first direction" in claim 7, "the printed circuit board" and "the second connector" in claim 13, "the printed circuit board" in claim 18, and "the floating connection" and "the support member" in claim 19 lack antecedent bases. Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 18 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 18 claims "a second electrical connector" and also refers to "the second electrical connector **as in claim 17**". The Applicant's intention is unclear. The rejections hereinafter are based on the Examiner's best understanding.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Bologna (US 6,088,221).

Bologna teaches an electronic apparatus (fig. 1) comprising: a housing (24), an electrical connector (48) connected to the housing, a printed circuit board (84) removably connectable to the electrical connector, a tray (60) having the printed circuit board connected thereto, the tray having at least one slide mounting tab (112) and a flange (108), at least one slide having a first member (118) connected to the tray by a float connection comprising the at least one tab and a fastener (112a) extending through the flange to allow a float movement between the first member and the tray, and a second member (64) connected to the housing and movably connected to the first member, wherein the at least one slide allows the tray to move relative to the housing to connect and disconnect the printed circuit board with the connector, and wherein the float connection allows the tray to move to allow the printed circuit board to align with the electrical connector when being connected thereto (claim 1); a power backplane (38) having the electrical connector connected thereto, and wherein the printed circuit board comprises a mating electrical connector (86) (claim 2); and wherein the electronic

Art Unit: 2835

apparatus comprises two of the slides located parallel to each other (see figs. 2 and 17), each slide providing a telescoping movement of the first and second members of the slides relative to each other (claim 3).

6. Claims 5-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Bologna.

Bologna teaches a system (fig. 2) for movably connecting a printed circuit board (84) to a frame (24), the system comprising: a tray (60) having the printed circuit board connected thereto (fig. 10), at least one slide mechanism with at least two rails (64 and 118) connected to each other for telescoping relative movement, a floating connection (fig. 18) between the at least one slide and the tray to allow the tray to move relative to the at least one slide mechanism (claim 5); means for sliding the tray relative to a portion of the frame in a first direction (left-right in fig. 2), the means for sliding including the at least one slide mechanism (claim 6); means (the gap between 118 and 64 in fig. 18) for allowing the tray to move relative to the frame in a second direction (left-right in fig. 18) angled relative to the first direction, the means for allowing the tray to move relative to the frame comprising the floating connection between the at least one slide and the tray (also the loose connection between 112 and 118) (claim 7); wherein the float connection is adapted to allow the tray to move relative to the frame in a third direction (up-down in fig. 18) angled relative to the first and second directions (claim 8); wherein the at least one slide mechanism includes two of the slide mechanisms (on both sides of 24) (claim 9); wherein the at least one slide mechanism comprises

Art Unit: 2835

bearings (62) located between the at least two rails (claim 10); wherein the at least one slide mechanism comprises three of the rails (fig. 2) (claim 11); and wherein the float connection comprises a tab (118) extending from the tray and located beneath a first one of the rails (upper 62), and a fastener attached to the tray and located beneath the first rail (claim 12).

7. Claims 13-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Bologna.

Bologna teaches a system (fig. 2) for connecting a first electrical connector (86) on a printed circuit board (84) with a second electrical connector (48), the system comprising: a support member (60) having the printed circuit board connected thereto, a movement device (64) allowing the support member to move in a first direction (left-right in fig. 2) relative to the second electrical connector, and a float connection (for example, fig. 18) between the movement device and the support member allowing the support member to move in a second direction (left-right in fig. 18) relative to the second electrical connector, wherein the second direction is angled relative to the first direction, and wherein the float connection allows the first electrical connector to align with the second connector as the support member is moved in the first direction and the first and second electrical connectors are being connected to each other (claim 13); wherein the support member comprises a tray (60) having the printed circuit board mounted to a top side of the tray (fig. 10) (claim 14); wherein the movement device comprises at least one slide (62 and 118), the slide comprising a first member (62) movably connected to a

Art Unit: 2835

second member (118) in a general telescoping arrangement (claim 15); wherein the float connection comprises a tab (118) extending from the support member and a fastener (two 62 form a fastener) attached to the support member, and wherein a first member (62) of the movement device has opposite ends which are loosely captured between the fastener and tab and the support member (claim 16); and wherein the first member having an upward extending bottom channel (between two 62's) at rear and front portions of the first member, and wherein the mounting tab and the fastener are located in the bottom channel (claim 17).

8. Claims 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Bologna.

Bologna teaches an electronic apparatus comprising: a housing (24, fig. 1), a printed circuit board (84) having a first electrical connector (86), a second electrical connector (48) connected to the housing, the second electrical connector being adapted to make it the first electrical connector, and a system (fig. 2) for connecting the first electrical connector on the printed circuit board with the second electrical connector (claim 18); wherein a float connection (fig. 18) comprises a tab (118) extending from a support member (60) and a fastener (two 62 form a fastener) attached to the support member, and wherein a first member (62) of the movement device has opposite ends which are loosely captured between the fastener and tab and the support member (claim 19); and wherein the first member having an upward extending bottom channel

Art Unit: 2835

(between two 62's) at rear and front portions of the first member, and wherein the mounting tab and the fastener are located in the bottom channel (claim 20).

Allowable Subject Matter

9. Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

10. The following is a statement of reasons for the indication of allowable subject matter: The best prior art of record, Bologna (US 6,088,221), fails to teach or fairly suggest: an electronic apparatus comprising a tray having at least one slide mounting tab extending downward from a bottom side of the tray and having a general L shape as set forth in claim 4.

Correspondence

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yean-Hsi Chang whose telephone number is (571) 272-2038. The examiner can normally be reached on 07:30 - 16:00.

If attempts to reach the examiner by telephone are unsuccessful, the Art Unit phone number is (571) 272-2800, ext. 35. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3431 for regular

Art Unit: 2835

communications and for After Final communications. There are RightFax numbers and provide the fax sender with an auto-reply fax verifying receipt by the USPTO: Before-Final (703-872-9318) and After-Final (703-872-9319).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-8558.

Yean-Hsi Chang
Primary Examiner
Art Unit: 2835
March 1, 2005



YEAN-HSI CHANG
PRIMARY EXAMINER